

# FINAL MINUTES

## **Minutes of the Seventh Meeting of the FCC Advisory Committee for the 2007 World Radiocommunication Conference (WRC-07)**

Date/Time: September 14, 2005 at 11:00 a.m.

Location: Federal Communications Commission  
Commission Meeting Room (TW-C305)  
445 12th Street, S.W., Washington, D.C.

Committee Members Present: See Appendix 1

FCC Employees Present: See Appendix 2

Meeting Summary:

### **1. Opening Remarks**

The Chair welcomed the participants and noted that the dates had been set for the 2007 World Radiocommunication Conference. She said that the informal working groups had been working furiously and that they had a number of draft preliminary views and proposals to present today. Her hope was to keep up the pace so the work could be done early in order to be more effective in preparing for the conference.

### **2. Approval of the Agenda**

The agenda, Document **WAC/061(14.09.05)**, was approved without change.

### **3. Approval of the Minutes of the Sixth Meeting**

The minutes, Document **WAC/060(22.06.05)**, were approved without change.

### **4. Status of Preliminary Views and Draft Proposals**

The Chair introduced a status document, Document **WAC/038(14.09.05)**, that tracks the progress of work to help see where we are and where we are going. She said that they would try to update the table for each meeting so that everyone could follow our progress.

The document was noted.

## 5. NTIA Draft Preliminary Views and Proposals

The Chair noted that the National Telecommunications and Information Administration (NTIA) had a draft proposal on WRC-07 Agenda Item 1.13 that was sent to the FCC via NTIA letter dated August 5, 2005 and that it was being reviewed by the informal working groups. She asked Charles Glass of NTIA if he wished to make any comments, and he said that it was for the most part self explanatory and that IWG-4 was looking at it now.

The NTIA letter, Document **WAC/062(14.09.05)** was noted.

## 6. IWG Status Reports and Consideration of Draft Preliminary Views and Proposals

### IWG-1: Terrestrial and Space Science Services

Ms. Warren, the Chair of IWG-1, reported that her group had held two meetings since the last meeting of the advisory committee and had two contributions to present today. The first was a draft proposal to expand the meteorological-satellite service footnote allocation from 18.0 to 18.3 GHz to satisfy Resolution 749 under WRC-07 Agenda Item 1.2. She said the draft proposal had been approved by consensus within IWG-1 and was offered to the advisory committee for its approval.

Agenda Item 1.2: to consider allocations and regulatory issues related to the Earth exploration-satellite (passive) service, space research (passive) service and the meteorological satellite service in accordance with Resolutions **746 (WRC-03)** and **742 (WRC-03)**

– Draft Proposal, Document **WAC/063(14.09.05)**, was approved.

Ms. Warren reported that the second item was a modification and expansion of a previous draft preliminary view for WRC-07 Agenda Items 1.5 to clarify the context in which spectrum was being sought. She said this item had been circulated in IWG-1 and no comments had been received. She now offered it for approval.

Agenda Item 1.5: to consider spectrum requirements and possible additional spectrum allocations for aeronautical telecommand and high bit-rate aeronautical telemetry, in accordance with Resolution **230 (WRC-03)**

– Revised Draft Preliminary View, Document **WAC/064(14.09.05)**, was approved.

The Chair announced that they planned to have their next meeting during the week after the October CITEL PCC II meeting.

### IWG-2: Satellite Services and HAPS

Mr. Baruch, the Chair of IWG-2, reported that his group had held three meetings since

the last meeting of the advisory committee and approved two sets of draft proposals. He presented a draft proposal on WRC-07 Agenda Item 1.8 with respect to the Resolution **122** portion. Proposals on pages 2 and 3 provide procedures for the coordination of High Altitude Platform Stations (HAPS) with respect to space stations while proposals on pages 4-6 were consequential changes to provisions of Article 9 of the Radio Regulations as a result of the addition of No. 9.22.

Agenda Item 1.8: to consider the results of ITU-R studies on technical sharing and regulatory provisions for the application of high altitude platform stations operating in the bands 27.5-28.35 GHz and 31-31.3 GHz in response to Resolution **145 (WRC-03)**, and for high altitude platform stations operating in the bands 47.2-47.5 GHz and 47.9-48.2 GHz in response to Resolution **122 (Rev.WRC-03)**

– Draft Proposal, Document **WAC/065(14.09.05)**, was approved.

Mr. Baruch presented a draft proposal for WRC-07 Agenda Item 1.19 relating to global broadband systems that would bring it into alignment with the CITEL proposal.

Agenda Item 1.19: to consider the results of the ITU-R studies regarding spectrum requirement for global broadband satellite systems in order to identify possible global harmonized FSS frequency bands for the use of Internet applications, and consider the appropriate regulatory/technical provisions, taking also into account No. **5.516B** of the Radio Regulations

– Draft Proposal, Document **WAC/066(14.09.05)**, was approved.

Mr. Baruch reported that IWG-2 agreed to the NTIA draft proposal, Document **WAC/057(22.06.05)**, for WRC-07 Agenda Item 7.2 to remove Agenda Item 2.5 from the preliminary draft agenda for WRC-10, but the group passed a note back to NTIA to ask what to do with Resolution **136**. His group will take a further look at this aspect at their forthcoming meeting.

Mr. Baruch announced that next meeting of his group had been scheduled for November 30.

### **IWG-3: IMT-2000 and 2.5 GHz Sharing Issues**

Ms. Cohen, the Chair of IWG-3, reported that her group had met three times since the last meeting of the advisory committee. It had developed a draft proposal for WRC-07 Agenda Item 1.9, Document **WAC/067(14.09.05)**, that was based on the U.S. preliminary view that received support at CITEL. She said there were two “typos” in the draft proposal approved by IWG-3 that have since been corrected in the document available at this meeting. She reported that there had been one objection (from Globalstar) at their last IWG-2 meeting, but there was no support for the objection by the group. She said that a letter of objection from Globalstar was available as Document **WAC/068(14.09.05)**. In order to facilitate discussion, she went through

each of the proposals in sequence. Proposed modifications 1 and 2 removed the mobile-satellite service from two bands 2500-2520 MHz and 2670-2690 MHz that Globalstar objected to. She noted that administrations in Region 2 (the Americas) had no plans for implementing the mobile-satellite service in these bands because sharing was not possible with the planned terrestrial services. Proposed modification 3 provided satellite power flux density limits in Table 21-4 to protect terrestrial services; and proposed modification 4 made consequential changes to Appendix 5, Annex 1, Table 5-2 as a result of proposed modification 3.

Several parties requested to comment from the floor:

*Suzanne Hutchings Malloy representing ICO* had a question regarding the views expressed in the document as they appeared to be inconsistent with the statement of the agenda item and asked for a clarification whether the views were based on a formal CITELE proposal or as a result of studies. The IWG-3 Chair said that the draft proposal was based on the preliminary view that eight countries signed on to CITELE. Ms. Hutchings apologized for arriving at the last IWG-3 meeting late. She said that she was on the distribution list but was not at CITELE and did not understand precisely what previously went on prior to her arrival at the IWG-3 meeting. She said that ICO wished to express its objection.

*Jeffrey Binckes representing Globalstar* said that he objected to this IWG-3 proposal in August of last year and continued to do so. He stated that there were questions raised in IWG-3 by Globalstar and other satellite companies and that they agreed to secondary status but not elimination. Because Region 2 countries reported in the questionnaire that they did not see any activity with respect to the mobile-satellite service at that time did not mean that they did not plan to do something in the future. Mr. Binckes made references to his letter by stating that recent tragedies such as the Indonesian tsunami, “9-11” and the war in Iraq showed that the mobile-satellite service was handy when terrestrial services were wiped out. He also noted that Commissioner Copps had said that there was a need to provide continuity at such times. Although there was not a ground-swell of support, he said that there was nothing in the ITU-R that said that they cannot share. With new technologies, this may be possible. He said that there may be advantages in having the mobile-satellite service cover those situations where terrestrial cannot. He admitted that the U.S. Government and mobile-satellite service proponents went “over-the-top” in the past, but now it seems that the terrestrial community was doing so. He said what he was looking for was balance. He added that the mobile-satellite service would be important in the terrestrial communications environment.

*William Gamble representing Mobile Satellite Ventures (MSV)* said that he was opposed to deletion of the mobile-satellite service from these bands. He made reference to the text of the agenda Item and said that he could do without placing undue constraints on the mobile-satellite service and would like to go on record as

supporting Globalstar. He said that he had not been participating in IWG-3 but would do so now.

*David Weinreich, Chair of U.S. ITU-R Working Party 8D* had a question on MOD 1 in the draft proposal. In the third paragraph of the background, it makes reference to ITU-R Recommendation M2041, but he was unable to find it in his search. Mr. Roytblat responded that the recommendation was adopted by ITU-R Working Party 8F, but he was not sure that it was referenced correctly here.

*Paul Sinderbrand of Wilkenson, Barker, Knauer representing the Wireless Communications Association* stated that he was speaking in favor of the proposal and said that this was not about the mobile-satellite service; it was about 40 MHz of spectrum where the FCC had found sharing problematic. He further stated that in Region 2, no nation had a mobile-satellite service allocation and that having a mobile-satellite allocation would pose limits on what terrestrial can do. He emphasized that in the ATC proceeding, the FCC twice refused sharing because the wireless operators needed an environment that could provide an element of certainty. Mr. Hadinger remarked that what he was hearing was that it was not a matter of technical feasibility but a matter of national policy. Mr. Sinderbrand noted that in the ATC proceeding one entity would control both the mobile-satellite service and the terrestrial services. He stated that he did not view control of both services as “co-sharing” within the meaning of that term.

*Jack Wengryniuk, Vice-Chair of IWG-2*, without interest in the previous arguments, noted that the last sentence on the first page, “Due to the incompatibility between MSS and terrestrial services this AP calls for elimination of MSS within Region 2”, and the first sentence on the second page, “The hard limit regulatory regime...would ensure the long term safeguard of terrestrial systems...from satellite interference”, made the document internally inconsistent. He emphatically expressed the need to correct this.

*Mario Florian, a consultant for satellite services, Orange, and terrestrial services but speaking on behalf of the terrestrial services in this case* noted that CITELE Document 744 rev 1 was approved at Guatemala and stated that the four bullet points of the views signed by 11 countries were important. He particularly noted that bullets 3 and 4 state that implementation of satellite networks in Region 2 may negatively impact terrestrial services and that Region 2 countries are not implementing or planning satellite networks in this band in Region 2. He stated that since there were no plans, there was a need to remove the satellite allocation.

After some discussion as to whether certain parts of the paper could go forward, it soon became apparent that the entire document would have to go back to IWG-3.

The Chair said she appreciated the attention given to this draft proposal but was of the view that the discussion should properly take place in IWG-3. She requested that the names of the speakers be added to the IWG-3 distribution list and that they participate

in the next IWG-3 meeting. She said that she would like to see a consensus document on this at the next meeting of the advisory committee, if possible, or a document stating where there were divergent views since the advisory committee's purpose was to take into account all interests. The Chair requested that the proposal be split into separate documents for individual consideration at the next meeting of the advisory committee so that it would be possible to at least move some of the proposals forward.

Ms. Cohen then introduced Document **WAC/069(14.09.05)** providing IWG-3's comments on a draft proposal for WRC-07 Agenda Item 7.2 enclosed with a letter from NTIA, Document **WAC/057(22.06.05)**. NTIA had proposed the deletion of Agenda Item 2.8 from the preliminary agenda for WRC-10; however, IWG-3 recommended retaining item 2.8 on the 2010 preliminary agenda until studies under Questions ITU-R 224 and 229 in Working Parties 1B and 4A were completed.

IWG-3's recommendations on the NTIA draft proposal relating to WRC-10 Agenda Item 2.8, Document **WAC/069(14.09.05)**, were approved.

Ms. Cohen announced that the next meeting of IWG-3 would be held on November 2 at the FCC

#### **IWG-4: Broadcasting and Amateur Issues**

Mr. Fisher, the Chair of IWG-4, reported that his group had met twice since the last meeting of the advisory committee and approved a draft preliminary view on WRC-07 Agenda Item 1.11 that he was presenting today. He also reported that they have proposal from NTIA for WRC-07 Agenda Item 1.13 that continued to be under consideration in IWG-4.

Agenda Item 1.11: to review sharing criteria and regulatory provisions for protection of terrestrial services, in particular terrestrial television broadcasting services, in the band 620-790 MHz from BSS networks and systems, in accordance with Resolution **545 (WRC-03)**

– Draft Preliminary View, Document **WAC/070(14.09.05)**, was approved.

Mr. Fisher announced that their next meeting would be held in early November.

#### **IWG-5: Regulatory Issues**

Ms. Allison, the Chair of IWG-5, reported that her group had met twice since the last meeting of the full committee and had scheduled their next meeting for October 20 at 10:00 a.m. at Boeing in Rosslyn. She said that the group had two draft proposals for WRC-07 Agenda Item 1.10 under consideration, but it would not be appropriate to make a proposal now. First, they needed to get support in CITEL on a considerably expanded preliminary view that had been approved at their last meeting. This

preliminary view was intended to loosen the current requirements in Appendix 30B so that the bands could be better utilized. If supported by CITELE, they hope to present a draft proposal at the next meeting of the advisory committee.

Agenda Item 1.10: to review the regulatory procedures and associated technical criteria of Appendix **30B** without any action on the allotments, the existing systems or the assignments in the List of Appendix **30B**:

- Revised Draft Preliminary View, Document **WAC/071(14.09.05)**, was approved.

Ms. Allison reported that IWG-5 agreed to support NTIA's draft proposal to delete Resolution **49**, Document **WAC/059(22.06.05)**.

## **7. Future meetings**

Alex Roytblat presented an updated WRC-07 Preparatory Timeline, Document **WAC/004(14.09.05)**, that includes all meetings leading up to the Conference Preparatory Meeting (CPM). He stated that the deadline for submitting documents for consideration at the CPM was September 15, 2006. He requested the advisory committee to pay attention to the schedule and work diligently so that work can be completed sufficiently in advance of the CPM document submission deadline. He advised that it was more beneficial to get documents in CPM ahead of time than to do at CPM.

The Chair announced that the next meeting of the advisory committee had been scheduled for 11:00 a.m. on December 9 in the Federal Communication Commission Meeting Room.

## **8. Other business**

The Vice-Chair pointed out that WRC-07 Agenda Item 7.2 addressed the agenda for the 2010 World Radiocommunication Conference and said it was not too early to begin thinking about what items that you want to have included on that agenda. He encouraged the informal working groups to take a look at this.

With there being no further business, the Chair thanked the informal working groups and the Commission's staff for their great work.

The meeting adjourned at 11:53 a.m.

Documents Distributed:

- WAC/003 WRC-07 Advisory Committee Structure (Updated 14.09.05)
- WAC/004 WRC-07 Preparatory Timeline (Updated 14.09.05)
- WAC/038 Status of WRC-07 U.S. Preliminary Views and Proposals (Updated 14.09.05)
- WAC/060 Draft Minutes of the 6<sup>th</sup> WRC-07 Advisory Committee Meeting
- WAC/061 Agenda for the 7<sup>th</sup> WRC-07 Advisory Committee Meeting
- WAC/062 Letter from NTIA, dated August 5, 2005, forwarding a Draft Proposal for WRC-07 Agenda Item 1.13
- WAC/063 Draft Proposal for WRC-07 Agenda Item 1.2 from IWG-1
- WAC/064 Revised Draft Preliminary View on WRC-07 Agenda Item 1.5 from IWG-1
- WAC/065 Draft Proposal for WRC-07 Agenda Item 1.8 (Resolution **122**) from IWG-2
- WAC/066 Draft Proposal for WRC-07 Agenda Item 1.19 from IWG-2
- WAC/067 Draft Proposal for WRC-07 Agenda Item 1.9 from IWG-3
- WAC/068 Opposition to Draft Proposal for WRC-07 Agenda Item 1.9 from Globalstar
- WAC/069 Comments on NTIA Draft Proposal for WRC-07 Agenda Item 7.2 from IWG-3
- WAC/070 Draft Preliminary View for WRC-07 Agenda Item 1.11 from IWG-4
- WAC/071 Revised Draft Preliminary View for WRC-07 Agenda Item 1.10 from IWG-5

# MINUTES

## Appendix 1 WRC-07 Advisory Committee Attendance Seventh Meeting – September 14, 2005

<b>Last Name</b>	<b>First Name</b>	<b>Occupation Or Affiliation</b>
Albuquerque	Jose	PanAmSat
Allison	Audrey	The Boeing Company
Baruch	Steve	Leventhal Senter & Lerman PLLC
Binckes	Jeffery	Jeff Binckes Associates, LLC – Consultant for Globalstar
Byrd	James	DHSSWMO/Booz Allen Hamilton
Cohen	Cecily	Nokia, Inc.
Drazenovich	Darlene	NTIA
Fisher	Ben	Pillsbury Winthrop Shaw Pittman LLP
Florian	Mario	Consultant for satellite services, Orange, and terrestrial services
Gamble	William	Consultant, Mobile Satellite Ventures
Glass	Charles	NTIA
Green	Katherine	ITT Industries
Hadinger	Peter	Northrop Grumman Space Technology
Hofer	Chris	NTIA
Hutchings-Malloy	Suzanne	ICO
Hutchison	Kris	Aeronautical Radio, Inc.
Keane	Ken	Duane Morris LLP for AFTRCC
Puckett	Ralph	Department of Defense
Sharky	Steve	Motorola, Inc.
Sinderbrand	Paul	Wilkenson, Barker, Krauer for WCA
Taylor	Shayla	TT&C
Vega	Mariana	Telecommunications Management Group (TMG), Inc.
Victory	Nancy	Wiley Rein & Fielding LLP
Walsh	Tom	The Boeing Co.
Warren	Jennifer	Lockheed Martin Corporation
Weaver	Frank C.	The Boeing Co.
Weinreich	David	ConneXion by Boeing
Wengryniuk	Jack	DirecTV
Williams	Frank	Department of State
Williams	Robin	The Boeing Co.
Wilson	Joanne	ArrayComm

**MINUTES**  
**Appendix 2**  
**WRC-07 Advisory Committee – FCC Representatives**  
**Seventh Meeting – September 14, 2005**

<b>Last Name</b>	<b>First Name</b>
Abelson	Don
Ibarra	Dante
Mooring	Tom
Olson	Larry
Roytblat	Alex
Weiland	Donald